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RAW SEQUENCE LISTINGPATENT APPLICATION: US/09/754,947

DATE: 07/02/2001

TIME: 16:41:09

Input Set : A:\-33-1.app

Output Set: N:\CRF3\07022001\I754947.raw

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3 <110> APPLICANT: Lee, Bruce Andrew
         Flores, Becky Mar
 5
         Valkirs, Gunars Edwin
        Biosite Diagnostics, Inc.
 8 <120> TITLE OF INVENTION: Assays for Detection of Bacillus Anthracis
10 <130> FILE REFERENCE: 014907-003310US
12 <140> CURRENT APPLICATION NUMBER: US 09/754,947
13 <141> CURRENT FILING DATE: 2001-01-04
15 <150> PRIOR APPLICATION NUMBER: US 60/174,901
16 <151> PRIOR FILING DATE: 2000-01-06
18 <160> NUMBER OF SEQ ID NOS: 5
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 785
24 <212> TYPE: PRT
25 <213> ORGANISM: Bacillus anthracis
27 <220> FEATURE:
28 <223> OTHER INFORMATION: surface array protein (SAP)
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40 Met Met Ala Gln Ile Leu Asn Leu Pro Ile Asp Lys Asp Ala Lys Pro
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43 Ser Phe Ala Asp Ser Gln Gly Gln Trp Tyr Thr Pro Phe Ile Ala Ala
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46 Val Glu Lys Ala Gly Val Ile Lys Gly Thr Gly Asn Gly Phe Glu Pro
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49 Asn Gly Lys Ile Asp Arg Val Ser Met Ala Ser Leu Leu Val Glu Ala
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52 Tyr Lys Leu Asp Thr Lys Val Asn Gly Thr Pro Ala Thr Lys Phe Lys
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55 Asp Leu Glu Thr Leu Asn Trp Gly Lys Glu Lys Ala Asn Ile Leu Val
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58 Glu Leu Gly Ile Ser Val Gly Thr Gly Asp Gln Trp Glu Pro Lys Lys
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61 Thr Val Thr Lys Ala Glu Ala Ala Gln Phe Ile Ala Lys Thr Asp Lys
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64 Gln Phe Gly Thr Glu Ala Ala Lys Val Glu Ser Ala Lys Ala Val Thr
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                        67 Thr Gln Lys Val Glu Val Lys Phe Ser Lys Ala Val Glu Lys Leu Thr
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70 Lys Glu Asp Ile Lys Val Thr Asn Lys Ala Asn Asn Asp Lys Val Leu
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		Tyr	Ser	Asn	Leu 245	Ala	Ala	Lys	Gln	Thr 250	Tyr	Thr	Val	Asp	Val 255	Asn
79 80	Lys	Val	Gly	Lys 260	Thr	Glu	Val	Ala	Val 265	Gly	Ser	Leu	Glu	Ala 270	Lys	Thr
82 83	Ile	Glu	Met 275	Ala	Asp	Gln	Thr	Val 280	Val	Ala	Asp	Glu	Pro 285	Thr	Ala	Leu
85 86	Gln	Phe 290	Thr	Val	Lys	Asp	Glu 295	Asn	Gly	Thr	Glu	Val 300	Val	Ser	Pro	Glu
89	305		Glu			310					315				_	320
92			Thr		325					330					335	
95	_	_	Asp	340					345					350		
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100 101		Asr 370	_	Ala	Asp	Phe	Thr 375		Lys	Asp	Phe	Lys 380		ı Asr	Asr.	Lys
				Gly	Asp	Asn			. Val	. Gl.n	Val			Lys	Asp	Gln
	385			_	-	390		-			395			-	-	400
106	Phe	Asr	n Ala	Val	. Thr	Thr	Gly	Lys	Val	. Glu	Туг	Glu	Ser	Leu	Asn	Thr
107					405	,				410	1				415	; ·
109	Glu	\Val	L Ala	Val	. Val	Asp	Lys	Ala	Thr	Gly	Lys	val	Thr	· Val	. Leu	Ser
110				420		_		_	425					430		
		Gly			Pro	val	. Lys			· Val	Lys	Asp			Gly	Lys
113		. .	435					440		a 1		Db -	445		T	
116		ьес 450		. ser	HIS	Thi	455		TTE	: GIU	Ald	460		GII	ггуз	Ala
				т1с	T.v.c	. T.A11			Thr	· Aen	. Val			Ser	Thr	Lys
	465		, not	. 110	. Lyc	470				2151	475		Lea	. DCI		480
			Thr	Asr	Leu			Lvs	Ala	Pro			Asp	Gln	Tyr	Gly
122	-			-	485	_		-		490					495	
124	Lys	Glu	ı Phe	Thr	Ala	Pro	Val	Thr	· Val	Lys	Val	. Leu	Asp	Lys	Asp	Gly
125				500					505					510		
	-	Glu		_	Glu	Gln	Lys			Ala	Lys	Tyr			Arg	Glu
128			515			_ •		520				_	525			
													ı Tyr		· vaı	Val
131) 												. הוג	LOU
	545		Ald	. гуг	ser	550		груз	GIU	на	БуS		1111	ьеи	Ата	Leu 560
			Live	λΊα	Dro	-		Dhe	Sar	Tare			Val	Δra	cl _v	Leu
137	GIU	. печ	г шуз	NI0	565		Alu	FILE	Jei	570		GIU	vai	. nig	575	
	Asp	Thr	Glu	Len			Tvr	· Val	Тhr			Asn	Gln	Lvs		Ala
140	P			580		_, _	-1-		585					590		
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                                     665
157 Val Asp Thr Ala Pro Thr Ala Lys Gly Leu Ala Val Glu Phe Thr Ser
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160 Thr Ser Leu Lys Glu Val Ala Pro Asn Ala Asp Leu Lys Ala Ala Leu
                            695
163 Leu Asn Ile Leu Ser Val Asp Gly Val Pro Ala Thr Thr Ala Lys Ala
164 705
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166 Thr Ala Ser Asn Val Glu Phe Val Ser Ala Asp Thr Asn Val Val Ala
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172 Asn Leu Thr Val Val Lys Asp Gly Lys Glu Gln Lys Val Glu Phe Asp
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193 cgtgcagaag cagctacaat gatggctcaa atcttaaact taccaatcga taaagatgct 180
194 aaaccatctt tegetgaete teaaggeeaa tggtaeacte catteatege agetgtagaa 240
195 aaagctggcg ttattaaagg tacaggaaac ggctttgagc caaacggaaa aatcgaccgc 300
196 gtttctatgg catctcttct tgtagaagct tacaaattag atactaaagt aaacggtact 360
197 ccaqcaacta aattcaaaqa tttaqaaaca ttaaactqqq qtaaaqaaaa aqctaacatc 420
198 ttagttgaat taggaatctc tgttggtact ggtgatcaat gggagcctaa gaaaactgta 480
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202 gtactagtta aagaggtaac tttatcagaa gataaaagat ctgctacagt tgaattatat 720
203 agtaacttag cagctaaaca aacttacact gtagatgtaa acaaagttgg taaaacagaa 780
204 gtaqctqtag qttctttaga agcaaaaca atcgaaatgg ctgaccaaac agttgtagct 840
205 gatgagccaa cagcattaca attcacagtt aaagatgaaa acggtactga agttgtttca 900
206 ccagagggta ttgaatttgt aacgccagct gcagaaaaaa ttaatgcaaa aggtgaaatc 960
<u>207 actttaqcaa</u>aaggtacttc aactactgta aaagctgttt ataaaaaaga cggtaaagta 1020
208 gtagctgaaa gtaaagaagt aaaagtttct gctgaaggtg ctgcagtagc ttcaatctct 1080
209 aactggacag ttgcagaaca aaataaagct gactttactt ctaaagattt caaacaaaac 1140
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210 aataaagttt acgaaggcga caacgcttac gttcaagtag aattgaaaga tcaatttaac 1200 211 qcaqtaacaa ctggaaaagt tgaatatgag tcgttaaaca cagaagttgc tgtagtagat 1260 212 aaagctactg gtaaagtaac tgtattatct gcaggaaaag caccagtaaa agtaactgta 1320 213 aaagattcaa aaggtaaagc acttgtttca cacacagttg aaattgaagc tttcgctcaa 1380 214 aaagcaatga aagacattaa attagaaaaa actaacgtag cgctttctac aaaagatgta 1440 215 acagatttaa aagtaaaagc tccagtacta gatcaatacg gtaaagagtt tacagctcct 1500 216 gtaacagtga aagtacttga taaagatggt aaagaattaa aagaacaaaa attagaagct 1560 217 aaatatgtga acagagaatt agttctgaat gcagcaggtc aagaagctgg taattataca 1620 218 gttgtattaa ctgcaaaatc tggtgaaaaa gaagcaaaag ctacattagc tctagaatta 1680 219 aaagctccag gtgcattctc taaatttgaa gttcgtggtt tagacacaga attagataaa 1740 220 tatgttactg aggaaaacca aaagaatgca atgactgttt cagttcttcc tgtagatgca 1800 221 aatggattag tattaaaagg tgcagaagca gctgaactaa aagtaacaac aacaaacaaa 1860 222 gaaggtaaag aagtagacgc aactgatgca caagttactg tacaaaataa cagtgtaatt 1920 223 actgttggtc aaggtgcaaa agctggtgag acttataaag taacagttgt actagatggt 1980 224 aaattaatca caactcattc attcaaagtt gttgatacag caccaactgc taaaggatta 2040 225 gcagtagaat ttacaagcac atctcttaaa gaagtagctc caaatgctga tttaaaagct 2100 226 gcacttttaa atatcttatc tqttgatggt gtacctgcga ctacagcaaa agcaacagct 2160 227 totaatgtag aatttgttto tgotgacaca aatgttgtag otgaaaatgg tacagttggt 2220 228 gcaaaaggtg caacatctat ctatgtgaaa aacctgacag ttgtaaaaga tggaaaagag 2280 229 caaaaagtag aatttgataa agctgtacaa gttgcagttt ctattaaaga agcaaaacct 2340 230 gcaacaaaac atcaccatca ccatcactaa 2370 233 <210> SEO ID NO: 3 234 <211> LENGTH: 44 235 <212> TYPE: DNA 236 <213> ORGANISM: Artificial Sequence 238 <220> FEATURE: 239 <223> OTHER INFORMATION: Description of Artificial Sequence:5' PCR primer 241 <400> SEQUENCE: 3 242 tcgctgccca accagccatg gccgcaggta aaacattccc agac 44 245 <210> SEQ ID NO: 4 246 <211> LENGTH: 89 247 <212> TYPE: DNA 248 <213> ORGANISM: Artificial Sequence 250 <220> FEATURE: 251 <223> OTHER INFORMATION: Description of Artificial Sequence:3' PCR primer 253 <400> SEQUENCE: 4 254 gtgataaact accqcattaa agcttatcga tgataagctg tcaattagtg atggtgatgg 60 255 tgatgttttg ttgcaggttt tgcttcttt 258 <210> SEQ ID NO: 5 259 <211> LENGTH: 201 260 <212> TYPE: PRT 261 <213> ORGANISM: Artificial Sequence 263 <220> FEATURE: 264 <223> OTHER INFORMATION: Description of Artificial Sequence: flexible linker 266 <220> FEATURE: 267 <221> NAME/KEY: MOD_RES 268 <222> LOCATION: (1)..(97) 269 <223> OTHER INFORMATION: Gly at positions 1-97 may be present or absent 271 <220> FEATURE:

RAW SEQUENCE LISTING

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VERIFICATION SUMMARY

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